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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/724,205	11/27/2000	Gregory Zoller	CSCO-71519.US.P	7874
7590 03/11/2004 - WAGNER, MURABITO & HAO LLP Third Floor Two North Market Street San Jose, CA 95113			EXAMINER	
			HOANG, PHUONG N	
			ART UNIT	PAPER NUMBER
			2126	U
			DATE MAILED: 03/11/2004	,

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/724,205	ZOLLER ET AL.			
Office Action Summary	Examiner	Art Unit			
	Phuong N. Hoang	2126			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 18 De	<u>ecember 2003</u> .				
,	2a)☑ This action is <b>FINAL</b> . 2b)☐ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)  Claim(s) 1 - 23 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5)  Claim(s) is/are allowed. 6)  Claim(s) 1 - 23 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119	·				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application ity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

### **DETAILED ACTION**

- 1. Claims 1 23 are pending for examination.
- 2. The cross reference related to the application cited in the specification must be updated (i.e. update the relevant status, with PTO serial numbers or patent numbers where appropriate, on page 10 lines 20 24; the entire specification should be revised).

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1 23 are rejected under 35 US.C. 103(a) as being unpatentable
  over Mowbray, "The Essential Corba" pages 35 53, 184 187, 212 213, and 250
   255, in view of UCS "UCS Architecture" pages 1 2.
- 5. **As to claim 20**, Mowbray teaches the steps of providing communication between a Practical Extraction Report Language (PERL) program and a distributed object comprising:

Art Unit: 2126

a) means for translating a call from the script program (wrapping with scripts, p. 253) to a format substantially compliant with a Common Object Request Broker Architecture (IDL, page 35 – 53).

b) means for translating a response from the call to a format substantially compliant with the script program (When IDL is mapped into a programming language, arguments are generated automatically and the rest are user-defined parameters, and the programming language here can be C or scripting language; page 40 section "Implementing OMG IDL Specification" and page 253).

Mowbray does not teach the script, and the script is written in Practical Extraction Report Language (PERL).

UCS teaches script application is written in PERL (Perl, page 1).

It would have been obvious to one of the ordinary skill in the art at the time the invention was made to combine the teaching of Mowbray and UCS's system because UCS's Perl scripting language is an interpretive language, which is easy to build and test.

- 6. **As to claim 21**, Mowbray teaches the means to access the distributed object (data object, page 186) via Common Object Request Broker Architecture (CORBA) (ORB, p. 184 187 on fig. 7.9 7.12).
- 7. **As to claim 22, 23**, Mowbray teaches the means for converting a data structure into a form or request (IDL, p. 35 53) which is substantially compliant with a program

Art Unit: 2126

which accesses the distributed object via the Common Object Request Broker Architecture (CORBA).

- 8. **As to claim 1**, it is a method claim of claims 20.b, e, and 21.c. See the rejection for claims 20.b, e, and 21.c. Further, Mowbray modified by UCS teaches the steps of:
- a) receiving a request from the PERL program, the request specifying the distributed object (Mowbray, ORB, page 250 on figure 8.2, p. 185 on fig. 7.10);
- d) receiving a response from the call in the step c) (Mowbray, ORB receives the response from object Implementation, p. 185 on fig. 7.10).
- f) passing the translated response from the step e) to the PERL program (Mowbray, ORB passes the response back to client, fig. 7. 10 of page 185, fig. 8.3 of page 255).
- 9. **As to claim 2**, see rejection of claim 22 above.
- 10. **As to claim 3**, Mowbray teaches the step of client stub (client stub, fig. 3.2 and 3.4 on page 38 42).
- 11. **As to claim 4,** Mowbray teaches the step of an adapter program converting the PERL request into a request which is substantially compliant with the Common Object Request Broker Architecture (CORBA) format (see Mowbray; IDL, p. 35 53).

Art Unit: 2126

12. **As to claim 5**, Mowbray modified by UCS teaches the step of wherein the adapter program is written in a first programming language (see Mowbray; IDL on p. 35 – 53) and the PERL application is written in second programming language (see UCS; scripting language, page 1), the first and the second programming languages being different.

Page 5

- 13. **As to claim 6**, Mowbray teaches the step of wherein the adapter program is substantially compliant with the C programming language (see Mowbray; C on page 40 on section "Implementating OMG IDL Specification.").
- 14. **As to claim 7**, UCS teaches the step of wherein the PERL program is located on a first computer system and the distributed object is located on a second computer system (see UCS; Accesing UCS components through a Remote Web Server, page 2 last paragraph).
- 15. **As to claim 8,** Mowbray modified by UCS teaches the step of an adapter program (see Mowbray; IDL, p. 35 53) converting a data structure into a form which is substantially compliant with the Practical Extraction Report Language (see UCS; Perl on page 1).
- 16. **As to claim 9**, Mowbray teaches the step of a plurality of objects (object services, page 47 48) described in an Interface Definition Language (IDL), providing a

Art Unit: 2126

corresponding plurality of translations in an adapter program, wherein the adapter program translates between a communication program and the PERL program (it is the functionality of adapter).

- 17. **As to claim 10,** Mowbray modified by UCS teaches the steps of the PERL program accessing user information over a number of databases (see Mowbray; database, page 185) by connecting to a server via the CORBA.
- 18. **As to claim 11**, it is an instructions claim of claim 1. See rejection for claim 1 above.
- 19. **As to claim 12**, see the rejection of claim 4 above.
- 20. **As to claim 13**, Mowbray teaches the step of wherein the distributed object is located on a remote computer system (Mowbray teaches the system is client-server environment which is remote computer system, p. 212 213).
- 21. **As to claim 14**, see the rejection of claim 3 above.
- 22. **As to claim 15**, Mowbray teaches the step of converting a data structure into a form (IDL, p. 42) which is substantially compliant with the data structures of the client stub.

Page 6

- 23. **As to claim 16,** Mowbray teaches the computer stored the PERL program and the distributed object (software development, fig. 1.1 and pages 13 15).
- 24. **As to claims 17 and 18**, see the rejection of claims 8 and 9 above.
- 25. As to claim 19, UCS teaches Perl-xs (see UCS; perl ext., figure on page 1).

## Response to Arguments

- 26. Applicant's arguments filed on 12/18/03 have been fully considered but they are not persuasive.
- 27. Applicant argued in substance that
- 1. The combination of Mowbray and UCS fails to teach translating a request from either PERL or a scripting language to CORBA.
- 2. Mowbray fails to mention PERL or any scripting languages for which a mapping currently exists.
- 3. Applicants do not understand how a potential mapping could be accomplished between OMG IDL and a scripting language.
- 28. Examiner respectfully disagree with applicant remark:

Application/Control Number: 09/724,205 Page 8

Art Unit: 2126

As to point 1, see paragraph 5 above, it is the combination of Mowbray and UCS teaches CORBA for defining interfaces called OMG IDL for multiple languages mappings in cross-platform environment. Mowbray teaches CORBA for defining interfaces called OMG IDL for multiple languages mappings in cross-platform environment (pages 35 – 53) including scripting languages (pages 253 – 254). UCS teaches Perl scripting language talking to Java via bridge.

It would have been obvious to one of the ordinary skill in the art at the time the invention was made to combine the teaching of Mowbray and UCS's system because UCS's Perl scripting language is an interpretive language, which is easy to build and test.

As to point 2, Mowbray teaches wrapping with scripts (page 253 –254). As mentioned above in point 1, UCS's Perl is an example of a scripting language.

As to point 3, Mowbray (pages 35 – 53), teaches over the system of how client applicant communicates with distributed object through OMG IDL (fig. 3.2 on page 38). When IDL is mapped into a programming language, arguments are generated automatically and the rest are user-defined parameters; the programming languages here can be C or scripting language (page 40 section "Implementing OMG IDL Specification" and page 253). Examiner also provides a whole chapter of reference that Mowbray teaches types of wrapping (see cited references Form PTO-892).

#### Conclusion

**Art Unit: 2126** 

29. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong N. Hoang whose telephone number is (703) 605-4239. The examiner can normally be reached on Monday - Friday 9:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (703)305-9678. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2126

Page 10

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ph

February 23, 2004

MENG-AL T. AN

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100